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<u>L1</u>	(wireless adj1 communication\$1) same ((mobile or portable) adj1 computer) same ((base or dock\$3) adj1 station)	401	<u>L1</u>

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L2	0

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DB=P	PGPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L2</u>	L1 same context	10	<u>L2</u>
<u>L1</u>	(wireless adj1 communication\$1) same ((mobile or portable) adj1 computer) same ((base or dock\$3) adj1 station)	401	<u>L1</u>

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L2 or L5	22

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L6

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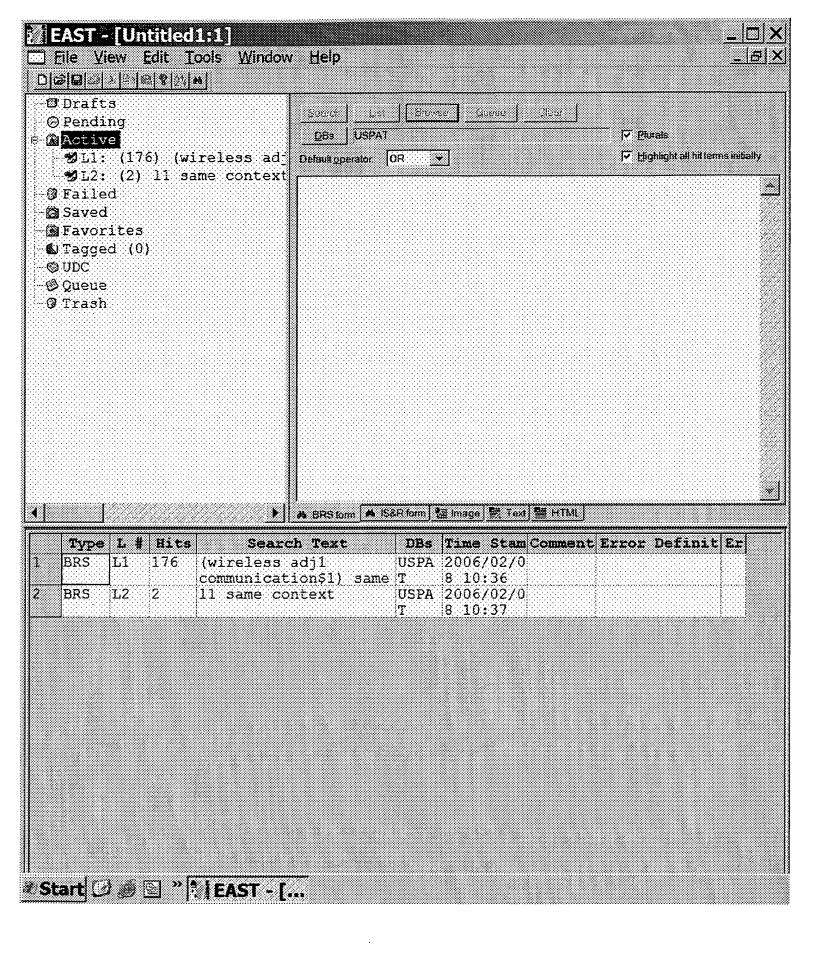
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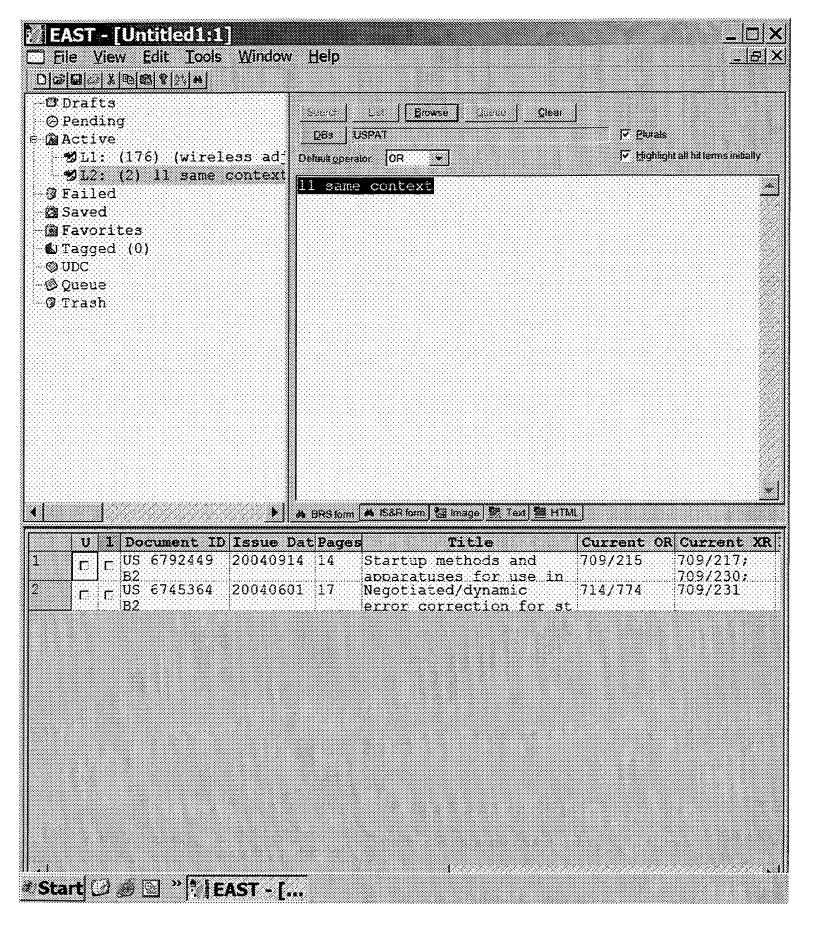
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<u>L5</u>	11 and L4	12	<u>L5</u>
<u>L4</u>	710/300-304,104;712/228;713/1,2,100;361/683-686.ccls.	11274	<u>L4</u>
DB=B	EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
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<u>L2</u>	L1 same context	10	<u>L2</u>
<u>L1</u>	(wireless adj1 communication\$1) same ((mobile or portable) adj1 computer) same ((base or dock\$3) adj1 station)	401	<u>L1</u>

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ieee Cnf	IEEE Conference Proceeding		1.	SWAN: a mobile multimedia wa Agrawal, P.; Hyden, E.; Krzyza		vastava M.R.: Trotter J.A.:		•
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ieee std	IEEE Standard			Volume 3, Issue 2, April 1996 Digital Object Identifier 10.1109				
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#### SWAN: a mobile multimedia wireless network

Agrawal P. Hyden E. Krzyzanowski P. Mishra P. Srivastava M.B. Trotter J.A. Comput. Syst. Res. Lab., AT&T Bell Labs., Murray Hill, NJ, USA;

This paper appears in: Personal Communications, IEEE [see also IEEE Wireless Communications]

Publication Date: April 1996 Volume: 3 . Issue: 2 On page(s): 18 - 33

ISSN: 1070-9916

INSPEC Accession Number.5263832 Digital Object Identifier: 10.1109/98.490750 Posted online: 2002-08-06 20:22:06.0

The SWAN (Seamless Wireless ATM Network) is an experimental indoor wireless network that instigates the combination of wireless access with multimedia networked computing in an indoor setting. It is based on room-sized pico-cells and mobile multimedia endpoints. It enables users carrying multimedia endpoints, such as personal digital assistants (PDAs), laptops, and portable multimedia terminals, to seamlessly roam while accessing multimedia data resident in a backbone wired network. The network model of SWAN consists of base stations connected by a wired asynchronous transfer mode (ATM) backbone network, and wireless ATM last hops to the mobile hosts. SWAN is one of the first systems to realize the concept of a wireless and mobile ATM network. Mobile hosts as well as base stations are embedded with custom-designed ATM adapter cards called FAWN (Flexible Adapter for Wireless Networking). FAWN uses off-the-shelf 2.4 GHz industrial, scientific, and medical (ISM) band radios. After giving an overview of the SWAN network model, and discussing the challenges in making ATM wireless and mobile, the article describes the first phase implementation of SWAN hardware and software. This initial implementation provides connectivity over the wireless last hop. We have investigated both native-mode end-to-end ATM communication across the wired ATM backbone and wireless ATM links, and transmission control protocol (TCP) and user datagram protocol (UDP) communication using Internet protocol (IP) over wireless ATM in the wireless link with IP forwarding and segmentation and reassemble modules at the base stations

#### Index Terms

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#### Non-controlled Indexina

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#### **Author Keywords**

Not Available

No references available on IEEE Xplore.

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